

Patent Claims

1. A heating apparatus for a motor vehicle which has an internal combustion engine and a vehicle interior, having a cooling circuit (2, 14) for cooling the internal combustion engine (2, 13) and having a heating circuit (6, 17), which has at least one heating body (7, 18), for heating the vehicle interior, as well as having an electrical additional heater, in particular a PTC additional heater (8, 19), characterized in that a heat source can be connected to the cooling and/or heating circuit (6; 14, 17) as the second additional heater (9, 16).
- 15 2. The heating apparatus as claimed in claim 1, characterized in that the heat source is in the form of an exhaust-gas heat exchanger (9).
- 20 3. The heating apparatus as claimed in claim 2, characterized in that the exhaust-gas heat exchanger (9) is arranged between the internal combustion engine (2) and the heating body (7) in the heating circuit (6).
- 25 4. The heating apparatus as claimed in claim 1, characterized in that the heat source is in the form of a visco heater (16).
- 30 5. The heating apparatus as claimed in claim 4, characterized in that the visco heater (16) is arranged upstream of the heating body (18) in the heating circuit (17).
- 35 6. The heating apparatus as claimed in claim 1, characterized in that the heat source is in the form of a fuel heater.